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ABSTRACT

This document presents a selected bibliography of social sciences in forestry, including economic, historical, sociological, and business aspects. Bibliographies are arranged in five categories: (1) social sciences applied to forestry at large; (2) applied to forest production; (3) applied to forest products; (4) applied to manufacturing; and (5) applied to marketing trade, and demand. Bibliographies include author, source information, publication date, publisher, and volume and page number information if from journals. Included is an appendix of theses and dissertations in progress listed by author, title, university, degree level, and possible completion date. (SL)

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SOCIAL SCIENCES in FORESTRY

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THESES AND DISSERTATIONS IN PROGRESS

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SOCIAL SCIENCES IN FORESTRY

Subject-Matter Classification Scheme

Note: This outline is regarded as working for the most part from the general to the specific. Material covering two or more sections of this outline is classified in the most general of these sections. Material which is classifiable in any of two or more sections is classified in the most specific of these sections.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

A General principles, scope, content, method

B History, status, prospects of forestry in an area, society in an area (This section includes material on forest resources alone, as opposed to those on consumer or intermediate resources alone, for which see appropriate later sections.)
1 General
2 United States, Canada
3 Other north-temperate nations
4 South-temperate nations
5 Nations in lower latitudes

C Law, politics, policy, plan, program, and their administration
1 General
2 Public
3 Private

D Influence other than legal or political (See also IID.)
1 Taxation
a General
b Property, general and special; severance; lieu payment
c Income, inheritance, other
2 Valuation [See also IIIA5a(5).]
3 Insurance
4 Social interest, value system, custom, folklore, culture
5 Characteristics of the individual
6 Public relations, other

E Research (For research on specific topics, see those topics.)

F Professional and subprofessional affairs, education, employment of foresters

G Social and economic development (See also IB.)

H Environmental concern

Subject-Matter Classification Scheme--Continued

II APPLIED TO FORESTRY'S PRODUCTIVE AGENTS
(See also the individual operation or type of output in III, IV, V.)

A Labor (Some material on labor will be found in IF, IV.)
1 General, employment, demand
2 Supply, union
3 Wage, cost, hours, productivity, technology, training, return, benefit
4 Working condition, turnover, absenteeism, safety, insurance
5 Characteristics of the worker

B Owner, ownership, manager, entrepreneur, holding (See also IC, IIC3.)
1 General
2 Public
a General
b Federal, central
c Regional, local
3 Private
a General
b Industrial
c Nonindustrial

C Land
1 Context of supply, requirement, etc.
2 Description, use trend and status, interpreted description
3 Management, use prospect and plan, planning, marketing, tenure
4 Research method

D Capital
1 General, investment, interest, finance
(For investment in forest production, see IIIE; for that in manufacturing, see IVA4.)
2 Credit

III APPLIED TO FOREST PRODUCTION (See also IIB, C.)

A Production including nontimber commodities and services
1 General, supply, multipurpose management
2 Christmas trees, greens
3 Range and livestock
4 Naval stores, maple product
5 Recreation
a General
(1) General
(2) Research
(3) Decision making, planning, management
(4) Demand, consumer, market
(5) Valuation

Subject Matter Classification Scheme--Continued

III APPLIED TO FOREST PRODUCTION--Continued

5 Recreation--Continued
- b Driving, on or off road
- c Walking, hiking, horseback riding, nature study
- d Picnicking
- e Camping
- f Wilderness activities
- g Amenity values
- h Other recreation activity

6 Water, soil, watershed management, shelterbelts
7 Wildlife, hunting, fishing
8 Urban forestry

B Production chiefly of timber
1 General, supply
2 Soil, site, site improvement
3 Tree regeneration and improvement
4 Intermediate cutting, pruning, stand improvement
5 Harvest cutting, rotation, cutting cycle, stocking, regulation, allowable cut
(For harvesting treated as engineering, see IVB.)

C Roads, other forest-management transportation
(For transportation in harvesting, see IVB4; in manufacturing and marketing, see VD.)

D Damage and protection
1 From fire
2 Prescribed burning
3 From insects
4 From other agencies
(For water damage and soil erosion, see IIIA6.)

E Decision making, planning, investment, accounting, inventorying
(For investment in general, see IID1.)

IV APPLIED TO MANUFACTURING
(For material on forestry in general, including forest land resources see IB.)

A The industry in general
1 Status and trend
- a General
- b United States, Canada
- c Other north-temperate nations
- d South-temperate nations
- e Nations in lower latitudes

2 Directory
(Includes those covering specific branches of industry.)

Subject Matter Classification Scheme--Continued

IV APPLIED TO MANUFACTURING--Continued

3 History
4 Decision making, planning, investment, accounting, inventorying (For a specific branch of industry, see that branch, "Operation of firm"; for investment in general, see IID1.)

B Timber-harvesting industry
(Includes roundwood in general; for specific types, see IVC, "raw material." For harvesting as silviculture, see IIIB4, 5.)
1 Status and trend
2 Operation of firm
3 Utilization of the stand or tree
(For utilization of a specific product, see the branch of industry in question.)
a General
b Logging residue and its disposal
4 Transportation (Skidding, yarding, loading, hauling to mill. For transportation in forest management, see IIIC; in manufacturing and marketing, see VD.)

C Wood-using industry
1 Lumber, allied product, pallet
a Industry status and trend
b Production, consumption, stocks, other statistics
(For sawtimber, see IB, IVB; for sawlog, see IVC1d.)
c Operation of firm
d Raw material
2 Pulp, paper, board
a Industry status and trend
b Operation of firm
c Raw material
d By-products
3 Veneer, plywood, panel
a Industry status and trend
b Operation of firm
c Raw material
4 Bark, chips, other residue
(See also IVB3 and the industry branch in question, "Operation of firm.")
5 Pole, piling, post, mine timber
6 Railway tie
7 Furniture
8 Charcoal, fuelwood
9 Particleboard, hardboard, fibreboard
10 Construction
11 Other wood-using industry

D Other forest industry
1 Decorative product
2 Naval stores
3 Maple product
4 Other

Subject-Matter Classification Scheme--Continued

V APPLIED TO MARKETING, TRADE, DEMAND FOR FOREST OUTPUT
(For marketing and demand for productive agents, see II.)

A Demand (See also IF.)
1 General; history of consumption; consumption-production relationships
2 Consumption or production prospect, goal, requirement, prediction
(For material on short-term requirement, see the industry in question in IV, "Industry status and trend.")
3 Consumer and his preference
(For material on specific forest resources, see also IIIA, B.)

B Market, marketing, trade, export, import
1 General
a General
b Futures, hedging
2 Stumpage, log
3 Lumber, plywood, allied products
4 Pulp, paper, board
a Product
b Wood raw material
5 Other wood products
6 Christmas trees, greens
7 Other type of output (See also IIC3.)

C Price, value
1 General
2 Stumpage, log
3 Other type of output
4 Price reporting

D Transportation (Includes transportation in manufacturing.)
(For transportation in forest management, see IIIC; in harvesting, see IVB4.)

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

B1 BRAMWELL, MARTYN, ET AL. (EDS). The international book of wood. Simon and Schuster, New York. 276 pp. 1976.

Wood in history and today. Covers such topics as wood anatomy, forest growth and harvest, architectural uses of wood, and wood in manufacturing.

B1 HERMANN, RICHARD K. Man and forests, a prodigal relation. In Forests and Future Resource Conflicts. Northwest Area Foundation Forestry Series. pp. 29-51. 1976.

Influence of man on forests from prehistoric to recent times.

B2 AMERICAN FOREST INSTITUTE. Forest facts and figures. American Forest Institute, Washington, D.C. 14 pp. 1977.

Forest statistics for U.S. based on "The Outlook for Timber in the United States" and other publications issued by the USDA Forest Service.

B2 ARMSON, KEN. Crown land tenure system urged as incentive for forest management. Pulp and Paper Canada 78(9): 33-35. Sep 1977.

Provinces should set aside some areas exclusively for industrial wood harvesting, license these to forest operating companies, and make these companies fully responsible for forest management.

B2 DICKSON, DAVID R., and TERESA M. BOWERS. Forest statistics for Connecticut. USDA Forest Service Northeastern Forest Experiment Station Res. Bul. NE-44, 40 pp. 1976.

B2 EARLES, J. M. Forest statistics for east Texas pineywoods counties. USDA Forest Service Southern Forest Experiment Station Res. Bul. SO-60, 40 pp. 1976.

B2 FARNSWORTH, ELLEN. The West, still number 1, but slipping. Wood and Wood Products 82(11): 27-28, 46. Nov 1977.

Since the early 1950s, more than half the lumber produced in the U.S. each year has come from western states. National forests in the West are producing far below their potential. More intensive management is needed.

B2 KNIGHT, HERBERT A. A preview of "Virginia's Timber, 1977." USDA Forest Service Southeastern Forest Experiment Station Res. Note SE-252, 4 pp. Oct 1977.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

Between 1966 and 1977 volume of growing-stock timber increased 22 percent.

B2 OSTROM, ARNOLD J. Timber volume in Iowa counties. USDA Forest Service North Central Forest Experiment Station Res. Note NC-217, 4 pp. 1977.

B2 SHEFFIELD, RAYMOND M. Forest statistics for the southern mountain region of Virginia, 1977. USDA Forest Service Southeastern Forest Experiment Station Res. Bul. SE-42, 33 pp. Oct 1977.

Area of commercial forest land in 17-county area has changed little since 1966. Softwood volume increased by 51 percent, hardwood by 36 percent.

B2 WEETMAN, G. F. Policemen, planners, and managers in New Brunswick crown forests. Forestry Chronicle 53(5): 262-263. Oct 1977.

Intensifying forest management on crown lands would benefit both government and industry.

B3 FRIESE, F. The forest of the trolls. In German. Kosmos, German Federal Republic 82(4): 172-174. 1976.

In Sweden.

B3 RYMER, L. The exploitation of woodlands in the parish of North Knapdale Argyllshire. Scottish Forestry 31(4): 244-250. Oct 1977.

History of forestry in a Scottish region.

B3 SCHWEIZERISCHE ZEITSCHRIFT FUR FORSTWESEN. Forest planning. In German; Fre. and Ita. sum. Schweizerische Zeitschrift fur Forstwesen 127(12): 820-844. 1976.

Papers on forest planning in Switzerland presented at the 1976 meeting of the Swiss Forestry Association.

B3 SHIPULIN, A. YA., A. M. KALININ, and G. V. NIKIFOROV. Forests of the Kuzbass. In Russian. Lesa Kuzbassa. Kemerovo, USSR; Knigoizdat. 2nd ed. 239 pp. 1976.

Industrial region in Siberia.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

B3 SKOGSAGAREN. The history of forests and forestry in Sweden. In Swedish. Skogsagaren No. 52. 1976.

Chapters include: The forest in prehistoric times (M. Fries); Man and forest from the earliest times to the Iron Age (B. Nihlgard); Forestry in the Middle Ages (L. Kardell); Forestry and the use of fire (L. Kardell): When pitch was more important than wood (L. Nordstrom); Charcoal production (L. Nordstrom); Swedish forest industries, a look into the past (L. Nordstrom): Forest ownership patterns over the years (L. Kardell); Swedish forest policy (R. Hjort); Shortage of forest, now and in earlier times (L. Nordstrom).

B4 GRANT, R. K. Some comments on forest planning and the forestry development plan for Otago. New Zealand Journal of Forestry 22(1): 126-133. 1977.

First major regional development plan published by the New Zealand Forest Service.

B4 GRUT, MIKAEL. Notes on the history of forestry in the Western Cape 1652-1872. South African Forestry Journal No. 100, pp. 32-37. Mar 1977.

Supply and demand of wood, the indigenous forests, forest law, and afforestation.

B4 PREVOSTO, M. Timber trees in Argentina. In Italian; Fre., Eng., and Ger. sum. Cellulosa e Carta 27(11): 3-21. 1976.

Problems of wood production and marketing in Argentina.

B5 BURGOS MARTINEZ, F., and A. B. VILLA SALAS. The new methodology, continuous forest management. In Spanish. Mensajero Forestal 33(350): 16-19. 1975.

Technical, social, and economic reasons for adopting intensive silvicultural practices in Mexico.

B5 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, Forestry Department. Report on the FAO/SIDA Workshop on Forestry Development Planning for Countries of Southeast Asia. Manila, Philippines, Aug 16, 1976. Rome. 38 pp. 1977.

B5 HOLZ-ZENTRALBLATT. Problems of timber trade and forestry in the Congo region. In German. Holz-Zentralblatt 103(6): 63-65. 1977.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

B5 KEOGH, RAYMOND M. Forestry in El Salvador. Irish Forestry 34(2): 85-90. 1977.

B5 MATHUR, R. S. Productivity trends in Indian forestry. In English; Hin., Ger., and Fre. sum. Indian Forester 102(6): 337-356. 1976.

For the period 1949-1972, production per hectare rose slightly, while production per capita remained stationary.

B5 MENSAJERO FORESTAL. Forest inventory of the state of Tlaxcala, Mexico. In Spanish. Mensajero Forestal 34(356): 13-14. 1975.

B5 MENSAJERO FORESTAL. Forest resource statistics of the Republic of Mexico. In Spanish. Mensajero Forestal 34(361): 16-20. 1976.

B5 MINOS, P. Marketing aspects of the timber industry in Sarawak, Malaysia. FAO/SIDA Workshop on Forestry Development Planning for Countries of Southeast Asia, Manila, Aug 16, 1976. Rome. 14 pp. 1976.

Forest resources and employment opportunities in forestry sector; 1965-75 export volume and export value of Ramin sawnwood.

B5 MOK, S. T. Forest management strategies for sustained maximum socio-economic benefits. Malaysian Forester 40(1): 14-26. Jan 1977.

In Malaysia, forest management strategies should emphasize judicious management and long perpetuation of the existing forest resource rather then its rapid liquidation and regeneration.

B5 SIRIN, LOCKMAN. Forest sectoral planning to maximize impact on national development. Malaysian Forester 49(1): 56-60. Jan 1977.

Sectoral planning for coordinated and integrated development of forestry in Malaysia.

B5 VOLATRON, B. The exploitation of the forest resources of Amazonian Brazil and Colombia, and the medium-term outlook for imports of logs and sawn timber from these countries on the French tropical-woods market. Part 3. In French; Eng. and Spa. sum. Bois et Forets des Tropiques No. 168, pp. 65-79. 1976.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

Forestry in Colombia.

C1 GOTSCH, H. J. Theory of forest policy. In German. Allgemeine Forstzeitung 88(2): 27-29. 1977.

C2 AINSCOUGH, GRANT L. Provincial forest policy changes in Canada, a review. Pulp and Paper Canada 78(3): 17-21. Mar 1977.

Experience of 9 provinces suggests that companies, rather than government, should manage forests.

C2 CAMP, C. S. A means of growth. Scottish Forestry 31(4): 265-267. Oct 1977.

Proposed program for the afforestation of uplands allocates land to private individuals who would employ specific land-management procedures.

C2 FOREST FARMER. Forestry Incentives Program, important rule changes for fiscal year 1978. Forest Farmer 37(2): 24. Nov/Dec 1977.

Latest revisions in the U.S. law provide additional latitude and should encourage landowner participation.

C2 GLEASON, C. D. Dear departed indigenous forestry. New Zealand Journal of Forestry 22(1): 18-23. 1977.

Because of the decline in the indigenous forest resources of New Zealand, the Forest Service has initiated a policy which will result in the virtual extinction of mills based thereon.

C2 GUIGONIS, M. Mission report on evaluation of the forestry project in Senegal and identification of the forestry project in Mauritania. In French. Food and Agriculture Organization of the United Nations. Rome. 107 pp. 1976.

Planning forestry development projects in West Africa.

C2 LEISNER, W. The concept of property, a restriction on forest legislation. In German. Allgemeine Forstzeitschrift 32(3): 63-66. 1977.

Constitutionality of forest laws that deal with property rights.

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C2 LE MASTER, DENNIS C., and LUKE POPOVICH (EDS). Crisis in federal forest land management. Proceedings, SAF/American Bar Association Symposium 1976. 116 pp. 1977.

Topics include: Implications of 1976 National Forest Management Act; shaping policy in the courts and executive agencies; ability of Congress to mandate sound resource policy; goals of the 1974 Renewable Resources Planning Act.

C2 MONTI E BOSCHI. The forestry problem in Italy. In Italian. Monti e Boschi 27(4): 45-47. 1976.

Main points in a proposed national policy for the management of forests in Italy.

C2 NAHRY, K. The program of aid for individual farms and forestry enterprises and for social extension. The measures, the group receiving assistance, and provisions. In German. Deutsches Bauern-Korrespondent 29(3): 81-87. 1976.

C2 PENNOCK, C. M., JR. Virginia's water-quality control program for loggers. Southern Journal of Applied Forestry 1(4): 2-3. Nov 1977.

1976 meetings held throughout Virginia informed loggers of the federal Water Pollution Control Act. Meetings emphasized good management practices to avoid further regulation.

C2 SCHICK, BRUCE A. Forest practice regulations, weighing their potential economic effects. West Virginia Agriculture and Forestry 7(1): 12-16. Jun 1977.

C2 USDA FOREST SERVICE. The Resources Planning Act and you. USDA Forest Service, 8 pp. 1977.

C2 VELAY, L. Assistance to forest policy development in Tunisia. Directions for a leading plan of action to protect soils and forest-range resources in Tunisia. In French. Food and Agriculture Organization of the United Nations, Rome. 1976.

Socio-economic factors in planning Tunisia's forest policy.

C2 WALKER, JOHN L. Economic efficiency and the National Forest Management Act of 1976. Journal of Forestry 75(11): 715-718. Nov 1977.

National Forest Management Act of 1976 specifically requires that economic criteria be considered in developing balanced programs.

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C2 WEAVER, JAMES. A larger equation for forestry. American Forests 83(11): 28-29, 45-46. Nov 1977.

Chairman of House Subcommittee on Forests hopes to deal with the following: establishing adequate and stable timber supplies, expanding the wilderness system, strengthening environmental standards, and increasing other multiple uses.

C2 WINGER, HAROLD S. Section 208 planning, what southern states are doing. Forest Farmer 37(2): 16-17. Nov/Dec 1977.

Summary of activities on a key provision of the Federal Water Pollution Control Act of 1972. Information indicates that normal forestry operations are producing no significant water pollution.

D1a PHILLIPS, G. M., H. M. O'FARRELL, E. J. PETT, ALAN K. WILKINSON, and ARDEN RYTZ. Forestry taxes and tenures in Canada. In Report of Proceedings of the 28th Tax Conference, pp. 537-571. Canadian Tax Foundation, Toronto. 1977.

Five papers on the current federal and provincial situation with respect to forestry tenure arrangements and taxation policies in Canada, presented in Vancouver, B.C., Nov 1976.

D1b HELLES, F. On site-value taxation of forests in Denmark. Reports from Dept. of Forestry, Royal Veterinary and Agricultural University. Series 2, No. 3. 23 pp. 1976.

D1b HELLES, F., and E. T. WILLIAMS. Site-value taxations and forest policy. In Proceedings, XVI IUFRO World Congress, Div. IV. pp. 416-427. 1976.

D1b KLEMPERER, W. DAVID. Unmodified property tax, is it fair? Journal of Forestry 75(10): 650-652. 1977.

Do unmodified property taxes place an unfair burden upon forests relative to most other properties? Conditions under which such unfairness may or may not exist.

D1b ROSNER, MONROE H. Impact upon local property taxes of acquisitions within the St. Croix River State Forest in Burnett and Polk counties. Dept. of Natural Resources, Madison, Wisconsin. Tech. Bul. No. 101, 24 pp. 1977.

In 5 of the 7 towns within the State Forest a lower total tax rate resulted, in one town there was no change, and in another there was a small increase.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

D1b SUTHERLAND, CHARLES F., JR. Forest property taxation in eastern Oregon, alternatives for the small woodlands owner. Extension Service, Oregon State University. Extension Circular 898, 11 pp. Jun 1976.

How taxes are calculated under each of two laws and the conditions required for change in classification.

D1b SUTHERLAND, CHARLES F., JR. The forest property tax law in western Oregon, alternatives for the small woodlands owner. Extension Service, Oregon State University. Extension Circular 888, 22 pp. Mar 1976.

Property tax laws available for forestry property owners. Procedures and costs associated with changing tax classification.

D1c ROGERS, JAMES D. Christmas tree growers and the IRS. American Christmas Tree Journal 21(4): 10-11. Nov 1977.

Capital-gains treatment and "choose and cut."

D2 KENK, G. K. On the quantification of social benefits of forests and forestry. Drafting of a social balance sheet for 1975 for the forest administration of Baden-Wurttemberg. In German. Mitteilungen der Forstlichen Versuchs- und Forschungsanstalt No. 75, 76 pp. 1976.

Quantifying the protective, social, and recreation functions of forests.

D2 KLEMPERER, W. DAVID. Old growth timber valuation reexamined. Assessors Journal 12(3): 125-138. Sep 1977.

Proposed old-growth income-valuation method accounts simultaneously for federal, state, and local taxes, management costs, different rates of harvest, and varying rates of stumpage-price increase over time. The method explains significant variations in prices paid for similar tracts of old-growth timber not scheduled for immediate harvest.

D2 MISHRA, P. Valuation of forest crops, the concept of price increase. In English; Hin., Fre., Ger., and Eng. sum. Indian Forester 103(10): 657-660. Oct 1977.

The price of a mature forest crop today is not the price that it will be in the future. When determining the value of immature forest stands, one must consider the price increases that will occur while the crop is maturing.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

D2 PAUL, F. Problems and proposals for the valuation of the forest and its functions. In German. Sozialistische Forstwirtschaft 26(10):312-314. 1976.

Valuing forests for wood production or as nature reserves.

D2 STEFFENS, R., and F. PAUL. Incorporating the contribution of the forest to environmental conservation and public recreation into the economic assessment of natural resources. In German; Rus. and Eng. sum. Archiv fur Naturschutz und Landschaftsforschung 16(2): 89-104. 1976.

Forest valuation method intended primarily to guide compensation in cases of loss or injury. Based on the costs of substituting a given stand with another of equal functional value.

D4 LOUGHMILLER, CAMPBELL, and LYNN LOUGHMILLER (EDS). Big Thicket legacy. University of Texas Press, Austin. 224 pp. 1977.

80-square-mile forest region in southeastern Texas, part of the Pine Island Bayou drainage system, has the greatest variety of plants of any comparable area in the U.S. Rugged environment has fostered a unique way of life and culture for the people in this region.

D6 WOOD AND WOOD PRODUCTS. The credibility gap and how to fight it. Wood and Wood Products 82(11): 81-82. Nov 1977.

Public relations and the wood-products industry.

E HAYGREEN, JOHN G., and ROBERT L. YOUNGS. Guiding public research in forest products. Forest Products Journal 27(12): 14-16. Dec 1977.

Results of a national planning workshop in January 1978 are likely to have a profound effect on research in the Forest Service and the universities.

E MANAN, OTHMAN BIN ABDUL. The need for coordination of forestry research in Malaysia. Malaysian Forester 40(1): 52-55. Jan 1977.

With three forestry research centers in Malaysia and a fourth about to open, it is suggested that a research coordinating committee be formed.

E RICHARDSON, S. D. The proper priorities of research and development in forestry. New Zealand Journal of Forestry 22(1): 7-17. 1977.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

First priority of researchers should be to respond to the global needs of society. Potential contribution of forestry and forest industries to a steady state economy rests in areas of environmental protection, waste avoidance, and the development of biological alternatives to nonrenewable resources.

E WING-HING, LEW. The concept of production oriented research. Malaysian Forester 40(2): 80-84. Apr 1977.

Work of the Timber Research Laboratory in Peninsular Malaysia.

F DELWAULLE, J. C. The role of the forester in the management of the Sahel. In French; Eng. and Spa. sum. Bois et Forets des Tropiques No. 160, pp. 3-22. 1975.

Forester's role in this area, which is south of the Sahara.

F WIANT, HARRY V., JR. Graduate admission procedures in U.S. forestry schools. Journal of Forestry 75(12): 782. Dec 1977.

G BOONYOBHAS, C. Forest community develpment program. FAO/SIDA Workshop on Forestry Development Planning for Countries of Southeast Asia, Manila, Aug 16, 1976. Rome. 8 pp. 1976.

Forest management plan for community development.

G HELLES, F. Forestry in regional economic development in Denmark. In Evaluation of the Contribution of Forestry to Economic Development, For. Commiss. Bul. No. 57, A. J. Grayson, Ed. pp. 50-55. 1976.

Model analyzes the effect plantations have on local economic development.

G HELLES, F. Silviculture in Les Landes de Gascogne. In Danish; Fre. sum. Dansk Skovforenings Tidsskrift No. 60, pp. 201-243. 1975.

Social and economic conditions.

G LAURSEN, UFFE. Thinning in mixed dipterocarp forest as a contribution to socio-economic development. Malaysian Forester 40(1): 36-51. Jan 1977.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

Both timber production and employment are affected by thinning. Timber yields are greater in forests that have been thinned. Jobs are created immediately by the thinning process itself, and in later years by the increased yield of the thinned forest. Particularly related to Malaysia.

G LESLIE, A. J. 1976 Annual General Meeting, a summing up of the colloquium on forestry and regional development. New Zealand Journal of Forestry 21(2): 201-205. 1976.

New Zealand Institute of Foresters' annual meeting.

G MC ARTHUR, E., and Y. K. TAN. Contribution of timber research towards socio-economic development in Sarawak. Malaysian Forester 40(2): 90-100. Apr 1977.

G MC DOWALL, L. Forestry in regional development, a sawmiller's view. Paper presented at the 1976 Annual General Meeting of the New Zealand Institute of Foresters. New Zealand Journal of Forestry 21(2): 195-200. 1976.

Sawmilling has contributed to regional social and economic development in New Zealand. Forests must be established to meet wood requirements of regional sawmills.

G ROBERGE, ROGER A. Resource towns, the pulp and paper communities. Canadian Geographical Journal No. 94, pp. 28-35. Feb/Mar 1977.

Historical profile of several hundred Canadian resource towns.

G SCHMISSEUR, W. E., and F. W. OBERMILLER. Economic effects of future growth alternatives in a rural Oregon county. Oregon Alternative Futures Growth Center Project, Dept. of Agricultural and Resource Economics, Oregon State University. Project Working Paper 3. 1976.

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C3 UTZ, KEITH A., WILLIAM E. BALMER, HENRY D. HAMMOND, and FRANK SHROPSHIRE. Investments analysis of bottomland hardwoods. USDA Forest Service Southeastern Area, State and Private Forestry. 8 pp. Apr 1977.

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A2 TANNEHILL, JOANE G. The Christmas tree industry in Virginia. Virginia Forests 32(4): 21. 1977.

A3 KIRBY, J. M. Forest grazing, a technique for the tropics. In English; Spa. and Fre. sum. World Crops 28(6): 248-250. 1976.

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A3 STEVENS, J. B., and E. B. GODFREY. An economic analysis of public range investments, the Vale Project, 1960-1969. Oregon Agricultural Experiment Station Information Circular 653. 1976.

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A5a(3) STANKEY, GEORGE H. Some social concepts for outdoor recreation planning. In Proceedings, Outdoor Advances in Application of Economics, pp. 154-161. USDA Gen. Tech. Rep. WO-2. 1977.

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A5f RAUSSER, G. C., and R. A. OLIVEIRA. An econometric analysis of wilderness area use. Journal of American Statistical Association 73(354): 276-285. 1976.

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A6 POPOVICH, LUKE. Tap water and timber, the costs of multiple use. Journal of Forestry 75(11): 726-730. Nov 1977.

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A7 EVERETT, RODNEY D. A method of investigating the importance of wildlife to countyside visitors. Environmental Conservation 4(3): 227-231. 1977.

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A8 JONES, A. R. C., and J. D. MAC ARTHUR. Morgan Arboretum, a model urban forest. In English; Fre. sum. Forestry Chronicle 53(5): 281-286. Oct 1977.

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A8 JORGENSEN, ERIK. Vegetation needs and concerns in urban areas. Forestry Chronicle 53(5): 267-270. Oct 1977.

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A8 POYNTON, R. J. Tree planting in an urbanizing South Africa. In English; Afr. Sum. South African Forestry Journal No. 100, pp. 43-49. Mar 1977.

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A8 WILLIAMS, W. KENNETH. The township, a pleasant place to live in? Architectural and planning matters affecting urban green space policies. Arboricultural Journal 3(3): 194-203. Sep 1977.

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B1 DUTROW, GEORGE. Cottonwood plantations and the question of profit. In Proceedings, Symposium on Eastern Cottonwood and Related Species. Louisiana State University Division of Continuing Education, Baton Rouge. pp. 432-437. 1976.

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B1 GANSNER, DAVID A., OWEN W. HERRICK, and DIETMAR W. ROSE. Intensive culture on northern forest-industry lands: trends, expectations, and needs. USDA Forest Service Northeastern Forest Experiment Station Res. Pap. NE-371, 8 pp. 1977.

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B1 GARIEPY, JOYCE. Poplar promoters plant to turn "junk" into energy. Canadian Forest Industries 97(10): 37, 39. Oct 1977.

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B1 GIORDANO, ERVEDO. Industrial support to poplar culture in Italy. In Proceedings, Symposium on Eastern Cottonwood and Related Species. Louisiana State University Division of Continuing Education, Baton Rouge. pp. 456-459. 1976.

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B1 STERNITZKE, H. S. The poplar resource in the United States, with special reference to cottonwood in the Mississippi Delta. In Proceedings, Symposium on Eastern Cottonwood and Related Species. Louisiana State University Division of Continuing Education, Baton Rouge. pp. 6-10. 1976.

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B1 THIELGES, BART A., and SAMUEL B. LAND, JR. (EDS). Proceedings, symposium on eastern cottonwood and related species. Greenville, Mississippi. Sep 28-Oct 2, 1976. Louisiana State University Division of Continuing Education, Baton Rouge. 485 pp. 1977.

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B3 DUTROW, GEORGE, and CLARK ROW. Measuring financial gains from genetically superior trees. USDA Forest Service Southern Forest Experiment Station Res. Pap. SO-132, 10 pp. 1976.

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B3 FRASER, A. I. A manual on the management of plantation forests. International Forest Science Consultancy, Penicuik, Midlothian, U.K. 127 pp. 1976.

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B3 LANGLEY, R. Support and expansion of the National Forest Institute, Tunisia. Study on natural regeneration of Aleppo pine in central Tunisia. In French. Food and Agriculture Organization of the United Nations Forestry Department, Rome. 1976.

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B1 LLOYD, J. D., JR. 1975 Washington timber harvest. USDA Forest Service Pacific Northwest Forest and Range Experiment Station Res. Bul. PNW-71, 2 pp. Apr 1977.

B2 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, Forest Industries and Trade Division. Harvesting man-made forests in developing countries. A manual on techniques, roads, production and costs. Rome. 193 pp. 1976.

B2 HEINRICH, R. Pulpwood logging trials in tropical high forest in East Kalimantan, Indonesia, 1976. Food and Agriculture Organization of the United Nations, Rome. 106 pp. 1977.

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C4 FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, Forest Industries and Trade Division. Wood chips: production, handling, transport. 2nd edition. Rome. 141 pp. 1976.

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C8 FARNSWORTH, ELLEN. Old/new way to handle wood waste, densify it. Wood and Wood Products 82(11): 23-24. Nov 1977.

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C8 OVEREND, MILES. Waste burners kill fuel costs at Clearwater. Canadian Forest Industries 97(8): 58-59. Aug 1977.

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C8 PEASE, DAVID A. Green bark replaces natural gas as plywood plant's energy source. Forest Industries 104(11): 50-51. Oct 1977.

C9 KEHR, E. Extension of the raw material basis for manufacture of particleboards and fibreboards. In German; Eng. and Rus. sum. Holztechnologie 17(4): 208-217. 1976.

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C10 DOST, WILLIAM A. All weather wood foundation, a truly new market for wood. Forest Products Journal 27(11): 17-18. Nov 1977.

C10 REID, WILLIAM H. Wood products used in the construction of nonresidentail and nonhousekeeping buildings: United States, 1961, 1969, and 1973. USDA Forest Service Forest Products Laboratory Stat. Bul. No. 563, 36 pp. 1977.

C10 RICH, STUART U. Lowering housing costs through product innovation. Forest Products Journal 27(12): 11. Dec 1977.

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C10 RICH, STUART. Lumber and plywood prices and the rising cost of housing. Forest Products Journal 27(10): 36. Oct 1977.

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C10 STIRLING, J. Lumber utilization moving into concrete field. British Columbia Lumberman 60(11): 54-55. 1976.

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C10 WONG, T. M. Prospects for timber in housing. Malaysian Forester 40(2): 101-108. Apr 1977.

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C11 ZERBE, JOHN I. Wood in the energy crisis. Forest Farmer 37(2): 12-15, 32-33. Nov/Dec 1977.

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V APPLIED TO MARKETING, TRADE, AND DEMAND FOR FOREST OUTPUT

A2 ANDERSON, WALTER C. Cottonwood, market unlimited. In Proceedings, Symposium on Eastern Cottonwood and Related Species. Louisiana State University Division of Continuing Education, Baton Rouge. pp. 451-455. 1976.

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A2 CARNELL, DAVID. Coated paper and board, a statistical review of major countries and an outlook for the future. In English; Fre. sum. Pulp and Paper Canada 78(12): 91-93. Dec 1977.

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A2 STONE, ROBERT N., and JEROME F. SAEMAN. World demand and supply of timber products to the year 2000. Forest Products Journal 27(10): 49-54. Oct 1977.

Timber supplies should meet projected demands.

A2 THOR, ERIC, and JIM LIVINGSTON. Demand growth stronger to 1981, South Seas timber outlook updated. World Wood 18(10): 18-20, 38. Sep 1977.

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A2 ZOBEL, BRUCE J. Will timber resources of the southern United States meet the demands? Tappi 60(6): 51-53. Jun 1977.

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B1a AMERICAN PLYWOOD ASSOCIATION. The market for American timber products in the United Kingdom. American Plywood Association, Tacoma, Washington. 18 pp. 1976.

V APPLIED TO MARKETING, TRADE, AND DEMAND FOR FOREST OUTPUT

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B1a AUSTIN, BRIAN A. Export horizons for the U.S. solid wood industry. Forest Products Journal 27(10): 67-73. Oct 1977.

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B1a HOLLAND, I. IRVING. Comparative advantage and potentials for world trade in wood products. Forest Products Journal 27(10): 55-58. Oct 1977.

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B1a STONE, ROBERT N., and H. EDWARD DICKERHOOF. Outlook for forest products trade and imports. Forest Products Journal 27(1): 44-48. Oct 1977.

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B1a WISDOM, HAROLD W. Expanding role for the South in world trade. Southern Journal of Applied Forestry 1(4): 11-15. Nov 1977.

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B1b FOX, JORDAN. Hedging lumber futures. Wood and Wood Products 82(12): 54-56. Dec 1977.

B2 COOPER, R. F. Timber sales, the State's viewpoint. New Zealand Journal of Forestry 21(2): 209-212. 1976.

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B2 MC DOWALL, L. Timber sales, a sawmiller's viewpoint. Paper presented at the 1976 Annual General Meeting of the New Zealand Institute of Foresters. New Zealand Journal of Forestry 21(2): 206-208. 1976.

V APPLIED TO MARKETING, TRADE, AND DEMAND FOR FOREST OUTPUT

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B2 MEI, DAN JUAT. The prospects of log importation for industrial expansion in Peninsualr Malaysia. Malaysian Forester 40(2): 85-89. Apr 1977.

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B2 THOMAS, DIRK S. How to sell stumpage. American Forests 83(12): 36-42. Dec 1977.

B2 UNITED STATES CONGRESS, HOUSE. Timber sales methods and related practices. Hearings before the Subcommittee on Forests, of the Committee on Agriculture, House of Representatives, Ninety-fifth Congress, first session, on H.R. 5863. Washington, D.C. 526 pp. 1977.

Hearings held February 7-April 5, 1977.

B3 AKPA, EMMANUEL KWASI. Short-run export performance, the case of the Ghanian forest products industry. Dissertation, Ph.D. University of Western Ontario. 1975.

Variation in volumes of lumber, plywood, and veneer exports, during 20-year period.

B3 ETHINGTON, ROBERT L. Developments in foreign markets, the case of Japan. Forest Products Journal 27(10): 59-61. Oct 1977.

Competition and short supplies limit U.S. log exports to Japan. One way Japan can increase its wood supply for housing is to import dressed lumber. For Japanese builders to use American-graded lumber, Japan must adopt North American house-framing methods.

B3 MANNING, G. H. Export markets for British Columbia softwood lumber producers, economic theory vs. empirical evidence. Forest Products Journal 27(10): 79-83. Oct 1977.

B.C. softwood lumber industry is geared to international trade. Development and maintenance of markets for B.C. products will depend on changing world trends in product demand and on factors affecting comparative costs of production.

V APPLIED TO MARKETING, TRADE, AND DEMAND FOR FOREST OUTPUT

B4a KALISH, JOHN. Japan, its growing role in world markets. Pulp and Paper International 19(9): 68. Aug 1977.

Japan, as the world's second largest paper producer, has the ability to export marginal tonnage at competitive prices.

B4a KALISH, JOHN. The pulp market faces uncertainties. Pulp and Paper International 19(11): 118. Oct 1977.

Uncertainty over market strength and effect of recent devaluations.

B6 GARRETT, LAWRENCE D., and THOMAS H. PENDLETON. Developing models to forecast sales of natural Christmas trees. USDA Forest Service Northeastern Forest Experiment Station Res. Pap. NE-374, 5 pp. 1977.

Models forecast Christmas-tree sales in metropolitan areas.

B6 LYTLE, J. S., and S. R. Pettigrew. Socio-economic factors related to Christmas tree purchase. South Carolina Agricultural Experiment Station, Clemson University. Tech. Bul. 1062, 4 pp. 1976.

B6 SHAIN, WILLIAM A. Retailing Christmas trees in Clemson, South Carolina. American Christmas Tree Journal 21(4): 21-26. Nov 1977.

Tree preferences of retail-lot customers surveyed over a 6-year period.

C2 BARR, N. A. Timber sales, the small owner's viewpoint. New Zealand Journal of Forestry 21(2): 213-214. 1976.

New Zealand farm foresters need to know what price to ask for their product. Publication of stumpages for all State sales of logs over $6000 should help in setting more consistent prices.

C2 FIGHT, ROGER D., and DOUGLAS J. YOUNGDAY. Public forest policy, wood prices and the consumer. Journal of Forestry 75(11): 703-706. Nov 1977.

If national-forest harvests were reduced, prices of wood products would rise. How wood prices affect various income levels.

V APPLIED TO MARKETING, TRADE, AND DEMAND FOR FOREST OUTPUT

C2 KEIPI, KARI. Transfer pricing for log allocation in a decentralized forest products firm. Communicationes Instituti Forestalis Fenniae 89.2, Helsinki. 114 pp. 1977.

Tests the hypothesis that the transfer prices of the corporate resource, logs, should be their competitive market prices.

C2 MENDEL, JOSEPH J., and MARGARET K. PEIRSOL. Quality index tables for some eastern hardwood species. USDA Forest Service Northeastern Forest Experiment Station Res. Pap. NE-370, 10 pp. 1977.

Revised quality index tables for white ash, beech, black cherry, birch, hard maple, soft maple, red oak, white oak, and yellow-poplar are based on 1970-74 lumber prices for the Appalachian and northeastern marketing areas.

C2 SNELLGROVE, THOMAS A., and THOMAS D. FAHEY. Market values and problems associated with utilization of dead timber. Forest Products Journal 27(10): 74-79. Oct 1977.

Problems of buyers and sellers in determining market value of products from dead timber.

C3 EXECUTIVE OFFICE OF THE PRESIDENT, Council on Wage and Price Stability. Lumber prices and the lumber products industry, Interim Report, October 1977. Reproduced by National Forest Products Association, Washington, D.C. 65 pp. 1977.

Examines major factors behind 50-percent increase in softwood lumber and plywood prices over the last two years.

C3 HUTCHINS, CECIL C. Pulpwood prices in the Southeast, 1976, and 5-year trend. USDA Forest Service Southeastern Forest Experiment Station Res. Note SE-253, 4 pp. Aug 1977.

Pulpwood prices in the Southeast increased moderately during 1976. Pulpwood expenditure trends show increases of 14 to 25 percent during 4 of the last 5 years, while roundwood pulpwood prices increased moderately.

D FRIESENDORFF, P. VON Transport from forest to industry. In Swedish. Skogsagaren 52(12): 14-16. 1976.

River driving, lake and sea transport, rail, and road.

V APPLIED TO MARKETING, TRADE, AND DEMAND FOR FOREST OUTPUT

D KALISH, JOHN, and LEONARD E. HAAS (ED). Transport and handling in the pulp and paper industry. Volume 2. Proceedings of the Second International Symposium on Transport and Handling in the Pulp and Paper Industry, Rotterdam, Oct 1976. Miller Freeman Publications, San Francisco. 304 pp. 1977.

Transport of raw materials, land transport and inland distribution, terminals and handling techniques, marine shipment of finished products/integrated systems, new developments in transport and handling.

APPENDIX

THESES AND DISSERTATIONS
IN PROGRESS IN THE UNITED STATES AND CANADA

Each entry is arranged in the following order: first, the student's name, commencing with his last name; second, the title or subject of his work; third, the name of the institution where he is doing his studies; fourth, the degree toward which he is working; fifth and last, the possible date of completion.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

B2 TRENCHI, PETER. The contribution of forestry to Alabama's economy, an input-output analysis. Auburn Univ., M.S. Dec 1978.

C1 WALLING, TRUMAN K. Special interest groups and forest policy formation, a case study of Minnesota. Univ. of Minnesota, M.S. Mar 1978.

C2 CUBBAGE, FRED. A review of state forest practices acts and a case study for Minnesota. Univ. of Minnesota, M.S. Jun 1978.

C2 LAFOND, PIERRE. Public forest policy for private nonindustiral ownerships with special reference to Lower Saint Lawrence-Gaspe Region, Province of Quebec. Yale Univ., Ph.D. Dec 1978.

C2 TAYLOR, GEORGE F., II. The evolution of forest policy in India with particular reference to the role of agricultural considerations and the socio-cultural environment. SUNY College of Environmental Science and Forestry, M.S. May 1978.

D1b CARLAN, SAMUEL A. Property tax assessment procedures on timberland in the United States, 1966-1976. Virginia Polytechnic Institute and State Univ., M.S. Jun 1978.

D1b HARDING, BRUCE. A technique to determine annual productivity trends of privately-owned East Texas timberlands for ad valorem taxation purposes. Texas A & M Univ., M.S. May 1978.

I SOCIAL SCIENCE APPLIED TO FORESTRY AT LARGE

E HAMEL, MICHEL. A methodology for setting priorities in forest research, with special reference to the Province of Quebec, Canada. Yale Univ., Ph.D. Dec 1978.

G MINDAJAO, NARCISO. Smallholder forestry and rural development: a case study of PICOP projects in Bislig, Philippines. Univ. of Minnesota, Ph.D. Sep 1978.

H LEMMON, RANDI S. An analysis of the environmental education aspects of the 1976 Virginia YCC program. Virginia Polytechnic Institute and State University, M.F. Jun 1978.

II APPLIED TO FORESTRY'S PRODUCTIVE AGENTS

B1 LEWIS, BERNARD J. A procedure for determining forest landowner typologies in the Missouri Ozarks. Univ. of Missouri, M.S. Dec 1978.

B2c ROUSSEAU-LAFOND, DENYSE. Optimal management intensity of public forest lands in relation to location factors with special reference to the Province of Quebec. Yale Univ., Ph.D. Dec 1978.

B2c ROY, STEPHEN F. Management alternatives for municipal natural resource lands in Massachusetts. Univ. of Massachusetts, M.S. Jun 1978.

B3a PALM, SALLY L. Evaluation of forestry objectives and land management practices of purchasers of county administered, tax forfeited land (Itasca County, Minnesota). Univ. of Minnesota, M.S. Jun 1978.

B3a VITELLO, JOHN. A study of large, private, forested tracts in the Shawnee Hills region of southern Illinois Ownership characteristics and land management practices. Southern Illinois Univ., M.S. Dec 1978.

B3c BINKLEY, CLARK SHEPARD. Predicting timber supply from private nonindustrial forest lands. Yale Univ., Ph.D. Sep 1978.

III APPLIED TO FOREST PRODUCTION

A3 FETZER, CLAIR E. Effects of cattle wintering within a hardwood stand. Pennsylvania State Univ., M.S. Mar 1978.

A5a(1) BRUMBAUGH, WAYNE D. A mathematical model to predict willingness-to-travel in Alabama. North Carolina State Univ., M.S. Dec 1978.

A5a(1) MABRY, FRANK. Potential role of private non-industrial private forest lands for supplying public recreation opportunities. Stephen F. Austin State Univ., M.S. Aug 1978.

A5a(2) TAPP, ELIZABETH DICKEY. A methodology study for interviewing elderly high-rise residents about local outdoor recreation opportunities. Southern Illinois Univ., M.S. May 1978.

A5a(3) CHRISTENSEN, HARRIET. Control and prevention of illegal behavior in recreation settings. Univ. of Washington, Ph.D. Jun 1978.

A5a(3) FORD, ROBERT H. Backcountry sanitation, a survey of current regulations and administration practices. Virginia Polytechnic Institute and State University, M.F. Jun 1979.

A5a(3) MARSHALL, WILLIAM JAMIESON. Planning for winter recreation use, a case study of Elk Island National Park. Univ. of Alberta, M.S. Dec 1978.

A5a(3) PEABODY, DOUGLASS C., JR. Attitudes and characteristics affecting the decisionmaking process of professional recreation administrators. Stephen F. Austin State Univ., M.S. May 1978.

A5a(3) PLAGER, ANNA. Recreation resource management policy. Univ. of Washington, M.S. Mar 1979.

A5a(4) DOTTAVIO, F. DOMINIC. The social group as an explanatory variable in outdoor recreation behavior. Purdue Univ., Ph.D. Dec 1978.

A5a(4) MORE, MURIEL E. The effects of interpretation on visitor learning and activity choices in natural areas. Univ. of Massachusetts, Ph.D. May 1978.

A5b WATSON, STUART. Characteristics and attitudes of off-road vehicle users on public forest lands in Texas. Stephen F. Austin State Univ., M.S. Aug 1978.

III APPLIED TO FOREST PRODUCTION

A5e PETTIGREW, MARY W. A comparison of development costs and operating expenses and revenues in public and private family campgrounds in North Carolina. North Carolina State Univ., M.S. Mar 1978.

A5f GULDIN, RICHARD W. An economic model of the costs of wilderness recreation, a case study of eastern wilderness areas managed by the Forest Service. Yale Univ., Ph.D. Jun 1979.

A5f SCHELHAS, JOHN. The significance of natural history in the wilderness recreation experience. Univ. of Arizona, M.S. May 1978.

A5g BRUSH, ROBERT O. Perception of stand attractiveness by forest landowners of Massachusetts. Univ. of Massachusetts, Ph.D. Mar 1978.

A5g LENZINI, JOSEPH. Visitor attitudes toward timber harvesting in an intensively used recreation area. Southern Illinois Univ., M.S. Dec 1978.

A5h BALLMAN, GARY. A baseline study of the use and users of the Kettle Wild and Scenic River. Univ. Of Minnesota, M.S. Mar 1978.

A5h HAWK, ELIZABETH G. Riparian landowners' perception of recreational use of Virginia's waterways. Virginia Polytechnic Institute and State University, M.S. Jun 1978.

A5h KNOTTS, DAVID. Recreation potential of slow moving rivers of East Texas. Stephen F. Austin State Univ., M.S. May 1978.

A5h STEIN, DAVID TERRY. Canoeists' perceptions of crowding in high-density canoe use situations at Ozark National Scenic Riverways. Southern Illinois Univ., M.S. Dec 1978.

A6 SHORE, DAVID G. The effects of southern pine beetle epidemics on forest watershed dynamics: Will benefits justify control? Virginia Polytechnic Institute and State Univ., M.S. Mar 1978.

A6 WEIBLE, RALPH. Economic analysis of managing water pollutants from nonpoint forest sources in Minnesota. Univ. of Minnesota, M.S. Mar 1978.

A7 BARRY, JIMMIE. Characteristics of trout fishermen using U.S. Forest Service land and streams in East Texas. Stephen F. Austin State Univ., M.S. Aug 1978.

III APPLIED TO FOREST PRODUCTION

A7 BEATTIE, KIRK H. A methodology for quantifying wildlife law violations and violators among licensed Virginia sportsmen. Virginia Polytechnic Institute and State Univ., Ph.D. May 1979.

A7 COWLES, CLEVELAND J. Optimal deployment of wildlife law-enforcement manpower, factors affecting wildlife agent productivity. Virginia Polytechnic Institute and State Univ., Ph.D. Jun 1979.

A7 RICHARDS, MERTON T. An assessment of the economic values of non-consumptive uses of wildlife toward improved resource policy formulation. Univ. of Arizona, Ph.D. Sep 1979.

A7 ROBERTSON, CHARLES. Characteristics of users of fee hunting areas in East Texas. Stephen F. Austin State Univ., M.S. Aug 1978.

A7 WITTER, DANIEL J. Bird-watchers', hunters', and wildlife professionals' beliefs about the importance and management of wildlife. Univ. of Arizona., Ph.D. May 1978.

A8 SACKSTEDER, CHRISTOPHER JOHN. An information system for managing municipal trees. Pennsylvania State Univ., M.S. May 1978.

A8 SIEVERT, RALPH CHARLES, JR. The identification of information needs of urban forestry through data collection and processing. Ohio State Univ., M.S. Dec 1978.

B1 JAKES, PAMELA J. The biological and economic potential of Minnesota's commercial forest land to produce timber. Univ. of Minnesota, M.S. Jan 1978.

B5 WATTS, JAMES TUCKER. Timber RAM application, national forests in Mississippi. Mississippi State Univ., M.S. May 1978.

E BRODERICK, STEVE. An economic analysis of alternative management regimes for loblolly pine. Virginia Polytechnic Institute and State Univ., M.S. Sep 1978.

E CHANG, SUN JOSEPH. Multiple-objective planning at the Nicolet National Forest, a goal programming input output analysis case study. Univ. of Wisconsin, Ph.D. May 1978.

E HAROU, PATRICE ARMAND. A decision framework for implementation and control of forestry projects. Univ. of Minnesota, Ph.D. Jan 1978.

III APPLIED TO FOREST PRODUCTION

E HOUGHTALING, THOMAS W. Sensitivity analysis of forestry projects, a break-even approach. Univ. of Minnesota, Ph.D. Sep 1978.

E MALAJCZUK, GEORGE. A model for the planning of timber-production management. Yale Univ., Ph.D. May 1978.

E MERSKI, DONALD J. Inferring rates of return earned by investments in timber management from planned expenditures and expected yields. Univ. of New Hampshire, M.S. May 1978.

E VODAK, MARK. An evaluation of the investment decision process involved in the administration of the Forest Cultivation Program of the Michigan DNR. Michigan State Univ., Ph.D. Mar 1978.

IV APPLIED TO MANUFACTURING

C11 HOBBS, BENJAMIN F. The use of analytical weighting procedures in site selection for energy facilities. SUNY College of Environmental Science and Forestry, M.S. May 1978.

V APPLIED TO MARKETING, TRADE, DEMAND FOR FOREST OUTPUT

B4a COLLETTI, JOEDY PAUL. An economic-linear programming methodology for the simulation and forecasts of demand and supply of wastepaper in the U.S. paper and paperboard industry. Univ. of Wisconsin, Ph.D. Feb 1978.

I N D E X

This list is to help users of the bibliography find the references they are looking for. The words provide entry into the appropriate sections of the bibliography. The index is best used in conjunction with the Subject Matter Classification Scheme, republished at the front of this issue. For example, if the user enters the index at Administration, forest, he is referred to Section III of the bibliography, because to be more specific would require subdividing the topic essentially as the Classification Scheme does. The user's next step then, is to turn to the Scheme, where he finds that forest administration in general is IIIA1, administration pertaining to forest roads is IIIC, and so on.

Absenteeism, IIA4

Accounting (see Planning and plan)

Acreage (see Area)

Administration
- forest, III
- forestry program, IC
- personnel, IIA
- professional, subprofessional affairs, IF
- research, IE

Advertising, V

Aesthetic value (see Amenities)

Afforestation, IIIB3

Africa
- forestry at large, IB5
- manufacturing, IVA1e
- (See also Union of South Africa)

Allowable cut, IIIB5

Alternatives
- genetic production, IIIE
- manufacturing, IVA4

Amenities, IIIA5
- integrated forestry, IIIA1
- land use, IIC

Appraisal (see Valuation)

Area
- forestry at large, IB
- land, IIC
- ownership, IIB
- policy, program, IC

Argentina
- forestry at large, IB4
- manufacturing, IVA1d

Asia
- forestry at large, IB5
- manufacturing, IVA1e
- (See also China; Japan; Taiwan; USSR)

Assessment (see Valuation)

Auction (see Market and marketing)

Australia
- forestry at large, IB4
- manufacturing, IVA1d

Balloon logging, IVB

Bark, IVC4
- demand, VA
- harvesting, IVB
- manufacturing, IVC4
- marketing, VB5
- price, VC3
- transportation
  - harvesting, IVB4
  - marketing, VD

Behavior of the individual, ID5

Board
  building (see Pulp and paper)
  composition (see Composition board)
  paper (see Pulp and paper)

Boards (see Lumber)

Bond, IID2

Box (see Lumber; Pulp and paper)

Brashing, IIIB4

Budget
  forestry at large, IID1
  genetic production, IIIE
  manufacturing, IVA4

Building (see Construction)

Building board (see Pulp and paper)

Burning (see Fire)

Business
  forestry at large, IB
  genetic production, IIIE
  manufacturing, IVA4
  principles, IA

Buyer
  commodity, VB
  demand, VA
  land, IIC3

Camping, IIIA5e

Canada
  forestry at large, IB2
  manufacturing, IVA1b

Canoeing, IIIA5h

Capital, IID
  gain, ID1c
  genetic production, IIIE
  manufacturing, IVA4

Caribbean
  forestry at large, IB5
  manufacturing, IVA1e

Cellulose (see Pulp and paper)

Charcoal, IVC8
  demand, VA
  manufacturing, IVC8
  marketing, VB5
  price, VC3
  transportation, VD

Chile
  forestry at large, IB4
  manufacturing, IVA1d

China
  forestry at large, IB3
  manufacturing, IVA1c

Chipboard (see Composition board)

Chipping (see Pulpwood and chips; Naval stores)

Chips (see Pulpwood and chips)

Christmas trees and greens, IIIA2
  demand, VA
  genetic production, IIIA2
  marketing, VB6
  price, VC3
  transportation
    harvesting, IVB4
    marketing, VD

City forest (see Forest)

Collateral, IID2

Competition
  forest use, IIIA1
  land, IIC
  market, VB
  silviculture, IIIB

Composition board, IVC9
  demand, VA
  manufacturing, IVC9
  marketing, VB5
  price, VC3
  transportation, VD

Conservation
  land, IIC3
  policy, IC
  resource owner, IIB
  saving, IID1
  social interest, ID4

Construction, IVC10
demand. VA
manufacturing, IVC10
marketing, VB7
price, VC3

Consumer and consumption, VA

Continuing education, IF

Cooperative association
forestry at large, IIB
manufacturing, IV
marketing, VB

County forest (see Forest)

Credit, IID2

Crosstie, IVC6
demand, VA
logging, IVB
manufacturing, IVC6
marketing, VB5
price, VC3
transportation
logging, IVB4
marketing, VD

Curriculum, IF

Custom, ID4

Cutting, IVB
cycle, harvest, IIIB5
intermediate, IIIB4

Data processing
genetic production, IIIE
manufacturing, IVA4

Debarking
harvesting, IVB3
manufacturing, IVC4

Decay, IIID4

Decision making (see Planning and plan)

Decorative product, IVD1
(See also Christmas trees and greens)

Demand, VA
capital, IID1
foreign trade, VB
labor, IIA1
land, IIC1
marketing, VB
professional, subprofessional, IF
recreation, IIIA5a(4)

Depletion
income tax, ID1c
regional resources, IB

Depreciation, IVA4

Development
genetic production, III
principles, IA
regional
forestry at large, IB
manufacturing, IVA1
social, IG

Dimension (see Lumber)
stock (see Lumber)

Directory
wood industry, IVA2

Discount (see Capital)

Disease, IIID4

Distribution
land, IIC
market transportation, VD
marketing, VB
regional resources, IB

Driving
recreation, IIIA5b
river, IVB4

Earnings
capital, IID1
genetic production, IIIE
investment, IID1
labor, IIA3
managerial, ownership, IIB
manufacturing, IVA4
professional, subprofessional, IF
valuation, ID2

Economics, IA
(See also Development)

Education, IF
(See also Training)

Elasticity (see Demand; Supply)

Employment
labor, IIA1
professional, subprofessional, IF

Energy, IB
demand, VA
genetic production, IIIB
manufacturing, IVC11
marketing, VB7

Enterprise, IIB

Entomology, IIID3

Entrepreneur, IC
land planner, IIC3
owner, manager, IIB

Environmental concern, IH
(see also Amenities; Technology)

Erosion, IIIA6

Europe
forestry at large, IB3
manufacturing, IVA1c

Export, V

Farm forest (see Forest)

Fee
grazing, VC3
recreation, IIIA5a(4)
simple
land tenure, IIC3
law, IC
ownership, IIB

Felling (see Cutting)

Fertilization, IIIB2

Fibreboard (see Composition board)

Finance (see Tax; Valuation; Insurance; Capital)

Fire
control, damage, loss IIID1
prescribed, IIID2

Firewood, IVC8
demand, VA
logging, IVB
manufacturing, IVC8
marketing, VB5
price, VC3
transportation
logging, IVB4
marketing, VD

Fish, IIIA7
(See also Recreation)

Flood, IIIA6

Flooring (see Lumber)

Folklore, ID4

Forage (see Rangeland)

Forecasting and forecast
consumption, VA2
forestry at large, IB
genetic production, IIIE
manufacturing, IVA4
principles, IA

Forest, IB
conversion, IIIB
genetic production, III
land market, IIC3
owner, manager, IIB
policy, program, IC

Forest Service, IIB2

Forest survey
finding (see Regional resources)
method
genetic production, IIIE
land, IIC4

Forester and forestry
owner, manager, IIB
policy, program, IC
professional, subprofessional, IF
social characteristics, IA
urban, IIIA8

Freight (see Transportation)

Fringe benefit, IIA3

Fuelwood (see Firewood; Energy)

Fume damage, IIID4
(See also Environmental concern)

Furniture, IVC7
demand, VA
manufacturing, IVC7
marketing, VB5
price, VC3
transportation, VD

Futures, VB1b

Genetic production, III
tree improvement, IIIB3

Goal
forest, IIIE
manufacturing, IVA4
regional or national consumption or production, VA2
society or economy, IA

Government
forest and forestry, IIB2
planning, VA2
policy, IC2
tax, ID1

Grazing (see Rangeland)

Greens (see Christmas trees and greens)

Growing stock, IIIB5
(See also Area)

Growth, timber, IIIB
(See also Development)

Gum (see Naval stores)

Hardboard (see Composition board)

Harvest
game, IIIA7
(See also Recreation)
silvicultural aspect
cutting cycle, harvest cutting, IIIB5
intermediate cutting, IIIB4
timber, IVB

Hauling (see Transportation)

Hedging, VB1b

Hewn tie (see Crossties)

Hiking, IIIA5c

History
consumption, VA1
forestry at large, IB
wood industry, IVA3

Horseback riding, IIIA5c

Housing (see Construction)

Human relations, ID4

Hunting, IIIA7
(See also Recreation)

Ice damage, IIID4

Import, V

Incentive
forest owner, IIB3
genetic production, IIIE
labor, IIA3
manufacturing, IVA4
silvicultural practice, IIIB

Industry
logging, IVB
wood manufacturing, IV

Input-output
genetic production, IIIE
manufacturing, IVA4
regional resources, IB

Insect, IIID3

Insulation board (see Composition board)

Insurance
  accident, IIA4
  property, ID3

Integrated forestry, IIIA1
  land use, IIC

Interest (see Capital)
  (See also Social interest)

Inter-industry analysis (see input-output)

International trade, V

Inventory
  data (see Area)
  method
    genetic production, IIIE
    land, IIC4

Investment (see Capital)

Irrigation, IIIB2

Israel
  forestry at large, IB3
  manufacturing, IVA1c

Japan
  forestry at large, IB3
  manufacturing, IVA1c

Kraft (see Pulp and paper)

Labor, IIA
  (See also Forester and forestry)

Land, IIC
  (See also Owner and ownership)

Landscaping (see Amenities)

Latin America
  forestry at large, IB5
  manufacturing, IVA1e
  (See also Argentina; Chile)

Law
  forestry at large, IC
  land, IIC3

Lease (see Owner and ownership)

Legislative history
  forestry at large, IC
  land, IIC3

Leisure (see Recreation)

Linear programming
  genetic production, IIIE
  manufacturing, IVA4

Livestock (see Rangeland)

Loading and unloading (see Transportation)

Loan, IID2

Location theory, IA
  (See also Regional resources; Transportation)

Log (see Stumpage and log)

Logging (see Harvest)

Lumber, IVC1
  demand, VA
  manufacturing, IVC1
  marketing
    cash, VB3
    futures, VB1b
  price, VC3
  transportation, VD

Management
  forest, III
  land, IIC
  manufacuting, IV
  multipurpose, IIIA1
  personnel
    labor, IIA
    professional, subprofessional, IF
  recreation, IIIA5

Manager, IIB
policy, program, IC
(See also Management)

Manpower
labor, IIA
professional, subprofessional, IF

Maple product, IVD3
demand, VA
genetic production, IIIA4
manufacturing, IVD3
marketing, VB7
price, VC3
transportation
harvesting, IIIA4
marketing, VD

Mapping (see Location)

Market and marketing
commodity, V
labor, IIA
land, IIC3
recreation, IIIA5a(4)

Mexico
forestry at large, IB5
manufacturing, IVA1e

Millwork (see Lumber)

Mine timber, IVC5
demand, VA
logging, IVB
manufacturing, IVC5
marketing, VB5
price, VC3
transportation
logging, IVB4
marketing, VD

Mining
damage by (see Environmental concern)
wood used in (see Mine timber)

Mobile home (see Construction)

Model
genetic production, IIIE
manufacturing, IVA4

Multiple use
forest, IIIA1
land, IIC

Municipal forest (see Forest)

National forest (see Forest)

National park
owner, manager, IIB2b
policy program, IC2
(See also Recreation)

Nature study, IIIA5c

Naval stores, IVD2
demand, VA
genetic production, IIIA4
manufacturing, IVD2
marketing, VB7
price, VC3
transportation
harvesting, IIIA4
marketing, VD

Near East
forestry at large, IB5
manufacturing, IVA1e
(See also Turkey; Isreal)

New Zealand
forestry at large, IB4
manufacturing, IVA1d

Newsprint (see Pulp and paper)

Noise abatement, IH
(See also Technology)

Nondeliberated decision, ID4

Operations research
genetic production, IIIE
manufacturing, IVA4

Outdoor recreation (see Recreation)

Owner and ownership, IIB
land, IIC3
policy, program, IC

Pacific islands
forestry at large, IB5
manufacturing, IVA1e

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